
title: Testnets

Flashbots operates on Goerli and Sepolia, so that searchers can test Flashbots without risking real funds.

Bundle Relay URLs

Network	URL
Mainnet	https://relay.flashbots.net
Goerli	https://relay-goerli.flashbots.net
Sepolia	https://relay-sepolia.flashbots.net

Examples

Here's how to setup the Flashbots Bundle Provider in Ethers to use Goerli or Sepolia:

```
```js const provider = new ethers.getDefaultProvider("goerli"); // uncomment the line below to use Sepolia // const provider = new ethers.getDefaultProvider("sepolia");
```

```
const authSigner = new ethers.Wallet('0x2000', provider);
```

```
const flashbotsProvider = await flashbots.FlashbotsBundleProvider.create(provider, authSigner, // use "https://relay-sepolia.flashbots.net" for Sepolia "https://relay-goerli.flashbots.net", "goerli"); ````
```

Sending bundles works the same as sending bundles on the mainnet. For example this will simulate a bundle and if it is successful then send a batch of 10:

```
```js const wallet = new ethers.Wallet(SOME_PRIVATE_KEY); const signedTransactions = await flashbotsProvider.signBundle([ { signer: wallet, transaction: { to: "0xf1a54b075fb71768ac31b33fd7c61ad8f9f7dd18", gasPrice: 10, gasLimit: 21000, chainId: 5, value: 0, }, }, { signer: wallet, transaction: { to: "0xf1a54b075fb71768ac31b33fd7c61ad8f9f7dd18", gasPrice: 10, gasLimit: 21000, chainId: 5, value: 0, }, }, ]);
```

```
const blockNumber = await provider.getBlockNumber();
```

```
console.log(new Date()); const simulation = await flashbotsProvider.simulate( signedTransactions, blockNumber + 1 ); console.log(new Date());
```

```
// Using TypeScript discrimination if ("error" in simulation) { console.log(Simulation Error: ${simulation.error.message}); } else { console.log( Simulation Success: ${blockNumber} ${JSON.stringify( simulation, null, 2 ) } ); } console.log(signedTransactions);
```

```
for (var i = 1; i <= 10; i++) { const bundleSubmission = flashbotsProvider.sendRawBundle( signedTransactions, blockNumber + i ); console.log("submitted for block # ", blockNumber + i); } console.log("bundles submitted"); ````
```

The reason why we submit bundles for the next 10 blocks is because Flashbots only runs a small portion of the validators on Goerli. We are more likely to have a bundle included if we submit bundles for several blocks into the future.